1. **The area of a rectangular field is 3375 m^2 and its length and breadth are in the ratio 5:3. Find the breadth ?**

   A)125m

   B)45m

   C)225m

   D)65m

   Answer

2. **The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of a square is 48cms and the length of the rectangle is 7cm. Find the breadth of the rectangle?**

   A)5cm

   B)4cm

   C)9cm

   D)6cm

   Answer

Note: The Information Provided here is only for reference. It May vary the Original.

3. **The area of a square is 7sqm less than half of the area of a rectangle. The length of the rectangle is 14m and breadth is 6m less than its length. What is the perimeter of the square ?**

A)42cm

B)32cm

C)22cm

D)28cm

Answer

4. **A cow is tethered to a peg with 7m long rope at the corner of a 35m long and 20m wide rectangular grass field, What area of the field will the cow graze ?**

A) 38.47m^2

B) 35.64m^2

C) 43.65m^2

D) 40m^2

Answer

5. **Inside a square plot a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 14m. What is the area of space left out in the square plot after developing the**

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garden ?

A) $32m^2$

B) $40m^2$

C) $42m^2$

D) $35m^2$

Answer

6. **The length of a rectangular floor is twice its breadth. If Rs.624 is required to paint the floor at the rate of Rs.8 psm. What is the breadth of the floor ?**

A)6.24m

B)5.10m

C)7.8m

D)4.6m

Answer

7. **5m radius and 12m height solid metallic cylinder is melted and recast into small spherical balls of radius 5m. Find the no of cubes that can be made ?**

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A)3
B)2
C)1
D)5

Answer

8. **2 cubes have their volume in the ratio 1:8, find the ratio of their surface area ?**
A)2:5
B)4:1
C)1:4
D)3:7

Answer

9. **A square field has an area of 7396 sq m,find the cost of fencing around it at Rs.22 per meter ?**
A)6754
B)7568
C)8765
D)7943

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Answer

10. **How many marbles of 10cm length and 7cm width are required to pave the floor of room 7m length and 4m breadth ?**

A)4000

B)5100

C)2800

D)3200

Answer

1. **After measuring 100m of a rope, it was discovered that the metre rod was 2cm longer. The true length of the rod is**

A)95m

B)98m

C)96m

D)93m

Answer

2. **A circle is drawn circumscribing a rectangle of sides 8cm and 6cm, find the area of the circle**

A)78.5cm^2

B)82.7cm²
C)65.4cm²
D)54.9cm²

Answer

3. **If the sides of a equilateral triangle is increased by 10% , 30%and 60%then a new triangle is formed. By what % perimeter of the triangle is increased ?**
A)40.50%
B)32.45%
C)33.33%
D)35.67%

Answer

4. **If length, breadth and height of a hall is 14m,8m,8m then find the diagonal of the hall ?**
A)15m

B)17m
C)19m
D)18m

Answer

5. **The base and the other side of an isosceles triangle is 8cm and 12cm. Find its triangle ?**
A)45.2 cm^2
B)54.8 cm^2
C)40.5 cm^2
D)38.7 cm^2

Answer

6. **Find the area of sheet required to prepare an 60m height cone with base radius 32cm.**
A) 138625cm^2
B) 158510cm^2
C) 149607cm^2
D) 128612cm^2

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Answer

7. **A hall is 80m long 65m wide. It has to be designed by tiles of 15m*10m. Find no of tiles required ?**

A)41

B)37

C)35

D)33

Answer

8. **Find the cost of carpenting a room 12 m long and 7 m broad with a carpet 10m long and 6m wide and at the rate of Rs.150 per meter.**

A)Rs.320

B)Rs.210

C)Rs.200

D)Rs.235

Answer

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9. **The side of a cube is 13 cm, Find its surface area?**

A) 1014cm^2

B) 1040cm^2

C) 1010cm^2

D) 1024cm^2

Answer

10. **The length of box 12 Cm long, 6 Cm breadth and 4Cm height. Find the maximum length of scale in that box?**

A)11

B)14

C)12

D)9

Answer

1. **The area of a square field is 4050 m^{2}the length of its diagonal is**

A)76m

B)90m

C)84m

D)80m

E)None of these

Answer

Note: The Information Provided here is only for reference. It May vary the Original.

2. **The Surface area of cube is 216 m^2. Find it's diagonal**
   A)18.25m
   B)10.38m
   C)13.56m
   D)20.67m
   E)None of these

   Answer

3. **The length of a rope by which a cow must be tethered in order that she may be able to graze an area of 2826 sq.m is**
   A)20m
   B)17m
   C)27m
   D)30m
   E)None of these

   Answer

4. **The number of rounds that a wheel of diameter14m will make in going 2 km is**
   A)62 rounds

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B)50 rounds
C)45 rounds
D) 56 rounds
E)None of these

Answer

5. **The ratio of length to breadth of a rectangle is 7:6. The perimeter of the plot is 260m. Find the area of the plot ?**
A)4800sq.m
B)5600sq.m
C)4200sq.m
D)2600sq.m
E)None of these

Answer

6. **In a parallelogram the length of adjacent sides are 13m and 11m. If the length of one diagonal is 18m, find the length of the other diagonal ?**
A)9m
B)16m
C)12m
D)19m
E)None of these

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Answer

7. **The circumference of the 2 circle is 212cm and 412cm. What is the difference between the area of the 2 circles ?**

A)10048cm^2

B) 10480cm^2

C) 10070cm^2

D) 10140cm^2

E)None of these

Answer

8. **If the length of the rectangular field is increased by 10% and the breadth is reduced by 10%, now the area of rectangle will be 217 cm^2 .Find the area of the original rectangle ?**

A)210 cm^2

B)219 cm^2

C) 215 cm^2

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D) 221 cm^2

E)None of these

Answer

9. **The area of right angle triangle is 100sq cm. The ratio of base to its height is 4:5.Find the length of the hypotenuse ?**

A)20cm

B)22cm

C)28cm

D)30cm

E)None of these

Answer

10. **How many bricks, each measuring 20 cm x 8 cm x 5 cm, will be needed to build a wall of 10 m x 7 m x 20cm?**

A)16000

Note: The Information Provided here is only for reference. It May vary the Original.

B)11000
C)12000
D)17500
E)None of these

Answer

1. **The length of a rectangle is reduced by 30%. By what percent would the width have to be increased to maintain the original area?**
A)25%
B)42.86%
C)32.76%
D)35.50%
E)None of these

Answer

2. **A circular wire of radius 49 cm is cut and bent in the form of a rectangle whose sides are in the ratio of 4:7. The smaller side of the rectangle is**
A)56cm
B)48cm
C)35cm
D)42cm
E)None of these

Answer

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3. **One of sides of a right-angled triangle is thrice the other, and the hypotenuse is 12 cm. The area of the triangle is**

A) 25.4 cm^2

B)6 cm^2

C)5 cm^2

D)6 cm^2

E)None of these

Answer

4. **A bottle in the shape of a right circular cone of height 21cm is filled with water. The water is poured in right circular cylindrical bottle whose radius is one third of the radius of the circular cone. Then the height of the water in the bottle is**

A)72cm

B)54cm

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C)63cm
D)48cm
E)None of these

Answer

5. **The base of an isosceles triangle is 40cm and its area is 160cm^2. The length of one of its equal side is**
A)22cm
B)20cm
C)40cm
D)35cm
E)None of these

Answer

6. **The circumference of a circle is twice the perimeter of a rectangle. The area of the circle is 3850sq cm. What is the area of the rectangle if the length of the rectangle is 30cm ?**
A)750sq cm

B)620sq cm
C)700sq cm
D)650sq cm
E)None of these

Answer

7. **Inside a square plot a circular garden is developed which exactly fits in the square plot and the diameter of the garden is equal to the side of the square plot which is 24m. What is the area of the space left out in the square plot after developing the garden ?**

A) $120m^2$
B) $110m^2$
C) $125m^2$
D) $150m^2$
E)None of these

Answer

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8. **The ratio of the side of the room is 5:2, the cost of whitewashing the ceiling of the room at 50 paise per square metre is Rs.2500 and the cost of preparing the walls at 30 paise per square metre is Rs.2100. The height of the room is**

A)31m

B)36m

C)23m

D)20m

E)None of these

Answer

9. **There are 2 rectangular tanks A and B with lengths 12m and 15m in a square field. If the total area of the square field excluding the rectangular tanks is 360sq m and the breadth of both the rectangular tanks is 1/3 of the side of the square field, find the perimeter of the square field?**

A)100m

B)75m

C)82m

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D)96m

E)None of these

Answer

10. **Meena wishes to start a 78sq m triangular flower garden. Since she has only 20m barbed wire, she fences three sides of the garden letting her house compound wall act as the fourth side fencing. The dimension of the garden is**

A)12m*3m

B)26m*13m

C)16m*13m

D)20m*11m

E)None of these

Answer

1. **The edges of a cuboid are in the ratio 3:4:5 and its surface area is 188 sq.cm. The volume of the cuboid is**

A)158.91 cubic cm

B)168.29 cubic cm

C)168.19 cubic cm

D)186.91 cubic cm

Answer

Note: The Information Provided here is only for reference. It May vary the Original.

2. **A solid metallic cone of height 20cm radius of base 30 cm is melted to make spherical balls each of 10cm diameter. How many such balls can be made?**

A)46

B)56

C)36

D)63

Answer

3. **The length and breadth of a rectangle are increased by 32% and 25% respectively. Its area will be increased by**

A)55%

B)65%

C)56%

D)50%

Answer

Note: The Information Provided here is only for reference. It May vary the Original.

4. **A right triangle with sides 15,16 and 18cm is rotated about the side 15cm to form a cone. The volume of the cone will be**
   A)4011.65 cubic cm
   B)3022.65 cubic cm
   C)4022.85 cubic cm
   D)2022.65 cubic cm

   Answer

5. **After measuring 320m of a rope, it was discovered that the measuring metre rod was 6cm longer. The true length of the rope measured is**
   A)320m 860cm
   B)329m 60cm
   C)320m 60cm
   D)230m 860cm

   Answer

6. **If the height and the radius of the base of a cone are each increased by 100%, then the volume of the cone becomes**
   A)Twice the original
   B)Four time the original

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C)Eight times the original

D)Six times the original

Answer

7. **The perimeter of a rhombus is 300cm. If one of its diagonals is 16cm then the area of the rhombus is**

A)1129 sq cm

B)1092 sq cm

C)1022 sq cm

D)1192 sq cm

Answer

8. **The height of a cone is 60cm. A small cone is cut off at the top of by a plane parallel to its base. If its volume is 1/64 of volume of the cone, at what height above the base is the section made?**

A)17cm

B)20cm

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C)23cm

D)15cm

Answer

9. **Volume of a cube whose diagonal measures 36*root3 cm?**

A)56356

B)34625

C)46656

D)25376

Answer

10. **A wire when bent in the form of a square enclose an area of 841 sq cm. What will be enclosed area when the samd wire is bent into the form of a circle?**

A)1938.34

B)1069.83

C)2536.34

D)1938.33

Answer

Note: The Information Provided here is only for reference. It May vary the Original.

1. **A room 24cm long and 32cm broad is to be paved with equal no of tiles. Find the no of largest tiles requires so that the tiles exactly fit.**

   A.15

   B.12

   C.17

   D.19

   E.None of these

   Answer & Explanation

2. **A circular garden has a path of uniform width around it. The difference between outer and inner circumference of the circular path is 210cm.Find its width.**

   A.33.44cm

   B.30.34cm

   C.40.24cm

   D.28.64cm

   E.None of these

   Answer & Explanation

3. **The length of a rectangular plot is 3 folds its width. Half the area of the plot is covered by a playground whose area is 363**

square meter. What is the length of the plot?

A.18.50m

B.13.61m

C.17.21m

D.15.51m

E.None of these

Answer & Explanation

4. **A rectangular field has its length and breadth in the ratio 6:5 respectively. A man riding bicycle complete one lap of this field along its perimeter at the speed of 12kmph in 1.5m. What is the area of the field ?**

A.5345

B.5487

C.5468

D.5460

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

5. **One of the angles of a parallelogram is 65degree. What will be the sum of twice the largest angle and thrice the smallest angle of the parallelogram ?**

A.460degree

B.375degree

C.235degree

D.425degree

E.None of these

Answer & Explanation

6. **The area of the square is three-fifth the area of a rectangle. The length of the rectangle is 25cm and breadth 10cm less than its length. What is the area of the square ?**

A.20cm

B.12cm

C.15cm

D.17cm

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

7. **What will be the cost of painting a hall whose area is 256sq m, if the rate of painting per sq m is Rs.22.**

A.Rs.1256

B.Rs.1350

C.Rs.2225

D.Can't be determined

E.None of these

Answer & Explanation

8. **The width of a rectangle is 10 meter and its area is 120 square meter. If length of the rectangle is increased by 6.What is the new perimeter of the rectangle?**

A.65

B.43

C.56

D.32

E.None of these

Answer & Explanation

9. **If the sides of a triangle measure 62cm, 70cm and 18cm, what is the measure of its in radius?**

A.7cm

B.6cm

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C.4cm

D.9cm

E.None of these

Answer & Explanation

10. **Four horses are tethered at 4 corners of a square field of side 60 metres so that they just cannot reach one another. The area left ungrazed by the horses is:**

A.841m

B.771m

C.612m

D.523m

E.None of these

Answer & Explanation

1. **The length and the breadth of a rectangular door are increased by 1 m each and due to this the area of the door increased by 21 sq. m. But if the length is increased by 1 m and breadth decreased by 1 m, area is decreased by 5 sq. m. Find the perimeter of the door.**

A) 25 m

B) 20 m

C) 40 m

D) 60 m

E) 24 m

Answer & Explanation

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2. **The perimeter of a rectangular plot is 340 m. Find the cost of gardening 1 m broad boundary around it at the rate of Rs 10 per sq. m.**
   A) Rs 3450
   B) Rs 3400
   C) Rs 3480
   D) Rs 3440
   E) Rs 3880

   Answer & Explanation

3. **The sides of a triangle are in the ratio 3 : 4 : 5 whose area is 216 sq. cm. What will be the perimeter of this triangle?**
   A) 58 cm
   B) 64 cm

Note: The Information Provided here is only for reference. It May vary the Original.

C) 28 cm
D) 36 cm
E) 72 cm

Answer & Explanation

4. **If the base of a triangle is increased by 50% and its height is decreased by 50%, then what will be the effect on its area?**
A) 50% decrease
B) 75% increase
C) No effect
D) 25% decrease
E) 25% increase

Answer & Explanation

5. **A rectangle whose sides are in the ratio 6 : 5 is formed by bending a circular wire of radius 42 cm. Find the largest side of the rectangle.**
A) 60 cm
B) 72 cm

Note: The Information Provided here is only for reference. It May vary the Original.

C) 66 cm
D) 78 cm
E) 84 cm

Answer & Explanation

6. **A rectangular sheet of 0.5 cm thickness is made from an iron cube of side 10 cm by hammering it down. The sides of the sheet are in the ratio 1 : 5. Find the largest side of the sheet.**
A) 100 cm
B) 72 cm
C) 20 cm
D) 70 cm
E) 88 cm

Answer & Explanation

7. **The area of the inner part of a cylinder is 616 sq. cms and its radius is half its height. Find the inner volume of the cylinder.**
A) 1577.5 cm^3

B) 1768.2 cm^3
C) 1538.5 cm^3
D) 1435.8 cm^3
E) 1238.5 cm^3

Answer & Explanation

8. **A cylinder and a cone have equal base and equal height. The ratio of the radius of base to height is 5 : 12. Find the ratio of the total surface area of the cylinder to that of the cone.**
A) 7 : 15
B) 16 : 9
C) 17 : 9
D) 9 : 17
E) 15 : 7

Answer & Explanation

9. **A cone of radius 12 cm and height 5 cm is mounted on a cylinder of radius 12 cm and height 19 cm. Find the total surface area of the figure thus formed.**
A) 2498 cm^2

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B) 2400 cm^2

C) 2476 cm^2

D) 2376 cm^2

E) 2546 cm^2

Answer & Explanation

10. **How many spherical balls whose radius is half that of cylinder can be formed by melting a cylindrical iron rod whose height is eight times its radius?**

A) 44

B) 48

C) 60

D) 56

E) Cannot be determined

Answer & Explanation

1. **A rectangle garden having length and breadth as 110 m and 65 m respectively has 2.5 m wide path around the sides inside the garden. Find the cost of gravelling the path at 50 paise per sq. metre.**

A) Rs 420

B) Rs 325

C) Rs 425

D) Rs 405

E) Rs 375

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Answer & Explanation

2. **The cost of painting a triangular board at Rs 24.68 per m^2 is Rs 33318. If the base of this board is thrice its height, find the height of the board.**

A) 66 m

B) 75 m

C) 30 m

D) 90 m

E) 45 m

Answer & Explanation

3. **The radius of a wheel of car is 70 cm. How many revolutions per minute the wheel will make in order to keep a speed of 66 km/hr?**

A) 234

B) 272

C) 225

D) 300

E) 250

Note: The Information Provided here is only for reference. It May vary the Original.

Answer & Explanation

4. **The length and breadth of a rectangle are in the ratio 3 : 2. If the length is increased by 5 m keeping the breadth same, the new area of rectangle is 2600 m^2. What is the breadth of the rectangle?**

A) 30 m

B) 20 m

C) 32 m

D) Cannot be determined

E) None of these

Answer & Explanation

5. **What will be the percentage increase in the surface area of the cube whose side is increased by 50%**

A) 75%

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B) 125%
C) 150%
D) 100%
E) 92%

Answer & Explanation

6. **The radius of base and height of a cylinder are in the ratio 2 : 3. Find the total surface area of the cylinder if its volume is 12936 cm^3.**
A) 3080 cm^2
B) 2680 cm^2
C) 4940 cm^2
D) 3280 cm^2
E) None of these

Answer & Explanation

7. **The diameter and the height of a right circular cylinder are 11.2 cm and 21 cm respectively. The metal around its outer body is 0.4 cm thick. What is the volume of the metal?**
A) 186.34 cm^3

B) 306.24 cm^3
C) 156.56 cm^3
D) 336.24 cm^3
E) None of these

Answer & Explanation

8. **What is the volume of a right circular cone whose radius of base is 70 cm and curved surface area is 40040 cm^2?**
A) 839500 cm^3
B) 713400 cm^3
C) 862400 cm^3
D) 462320 cm^3
E) None of these

Answer & Explanation

9. **Find the radius of each of the 8 spherical balls which are made from a solid sphere of radius 10 cm by melting it.**
A) 12 cm
B) 8 cm
C) 20 cm

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D) 5 cm

E) 15 cm

Answer & Explanation

10. **The metal used in the cylinder having external radius 6 cm, height 15 cm and thickness 0.25 cm is to be cast from a cylinder of radius 1 cm. What is the approximate height of the cylinder from which casting is to be done?**

A) 8 1/4 days

B) 8 3/4 days

C) 9 days

D) 10 3/4 days

E) 11 1/3 days

Answer & Explanation

1. **A rectangular box has dimensions 1.6 m × 1 m × 0.6 m. How many cubical boxes each of side 20 cm can be fit inside the rectangular box?**

A) 220

B) 205

C) 120

D) 165

E) 124

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

2. **What is the volume of a cylinder whose curved surface area is 704 cm^2 and height is 14 cm?**

A) 2878 cm^3

B) 2914 cm^3

C) 2396 cm^3

D) 2816 cm^3

E) 2916 cm^3

Answer & Explanation

3. **If the volume of wire remains the same but its radius decreases to 1/3rd of previous, then the new length of the wire will be how many times of the previous length?**

A) 3 times

B) 4 times

C) 6 times

D) 10 times

E) 9 times

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

4. **A cone with diameter of its base as 12 cm is formed by melting a spherical ball of diameter 6 cm. What is the height of the cone?**

A) 6 cm

B) 3 cm

C) 32 m

D) 15 cm

E) None of these

Answer & Explanation

5. **The total cost of painting the walls of a room is Rs 475. Find the cost of painting the walls of another room whose length, breadth and height each are double than the dimensions of the previous room.**

A) Rs 1780

B) Rs 1900

C) Rs 1846

D) Rs 1960

E) Rs 1600

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

6. **A circular wire of diameter 84 cm is bent into a rectangle with sides ratio 6 : 5. What are the respective sides of the rectangle?**

A) 60 cm, 72 cm

B) 78 cm, 65 cm

C) 72 cm, 60 cm

D) 90 cm, 75 cm

E) None of these

Answer & Explanation

7. **The ratio of the outer and the inner perimeters of a circular path is 9 : 8. The path is 3 metres wide. What is the diameter of the outer circle?**

A) 20 m

B) 27 m

C) 35 m

D) 39 m

E) 24 m

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

8. **Four circular cardboard pieces, each of diameter 28 cm are placed in such a way that each piece touches two other pieces. Find the area of the space enclosed by the four pieces.**

A) 195 cm^2

B) 134 cm^2

C) 168 cm^2

D) 162 cm^2

E) None of these

Answer & Explanation

9. **A solid sphere of radius 20 cm is melted to form 12 spherical balls. Find the radius of each of the ball.**

A) 12 cm

B) 8 cm

C) 20 cm

D) 10 cm

E) 15 cm

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

10. **The perimeter of a rectangular plot is 210 m. Find the cost of gardening 2 m broad boundary around rectangular plot whose perimeter The cost of gardening is Rs 14 per m^2.**

A) Rs 6450

B) Rs 6400

C) Rs 6480

D) Rs 6104

E) Rs 6880

Answer & Explanation

1. **A slice from a circular pizza of diameter 14 inches is cut in a such a way that each slice of pizza has a central angle of 45°. What is the area of each slice of Pizza(in square inches)?**

A. 16.25

B. 19.25

C. 18.25

D. 17.25

E. None of the Above

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

2. **A rectangular courtyard 3.78 m long and 5.25 m broad is to be paved exactly with square tiles, all of the same size. What will be the minimum number of such tiles is?**

A. 160

B. 450

C. 250

D. 325

E. None of the Above

Answer & Explanation

3. **Circumference of a circle A is 22/7 times perimeter of a square. Area of the square is 784 cm^2. What is the area of another circle B whose diameter is half the radius of the circle A(in cm^2)?**

A. 154

B. 452

C. 616

D. 512

E. None of the Above

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

4. **The area of a rectangle is equal to the area of a square whose diagonal is $12\sqrt{6}$ metre. The difference between the length and the breadth of the rectangle is 6 metre. What is the perimeter of rectangle ? (in metre).**

A. 160 metre

B. 80 metre

C. 82 metre

D. 84 metre

E. None of the Above

Answer & Explanation

5. **The area of a rectangle gets reduced by 9 square units,if its length is reduced by 5 units and breadth is increased by 3 units.If we increase the length by 3 units and breadth by 2 units, then the area is increased by 67 square units. Find the length and breadth of the rectangle.**

A. 15m, 9m

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B. 17m, 9m
C. 14m, 7m
D. 16m, 7m
E. None of the Above

Answer & Explanation

6. Height of a cylindrical jar is decreased by 36%. By what percent must the radius be increased, so that there is no change in its volume?
A. 25%
B. 35%
C. 45%
D. 50%
E. None of the Above

Answer & Explanation

7. **The sum of the radius and height of a cylinder is 19m. The total surface area of the cylinder is 1672 m², what is the volume of**

the cylinder?(in m^3)

A. 3080

B. 2940

C. 3220

D. 2660

E. 2800

Answer & Explanation

8. **If the length of a rectangular field is increased by 20% and the breadth is reduced by 20%, the area of the rectangle will be $192m^2$. What is the area of original rectangle?**

A. $100m^2$

B. $150m^2$

C. $175m^2$

D. $200m^2$

E. None of the Above

Answer & Explanation

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9. **The respective ratio of curved surface area and total surface area of a cylinder is 4:5. If the curved surface area of the cylinder is 1232cm², What is the height?**

A. 14 cm

B. 28 cm

C. 7 cm

D. 56 cm

E. 24 cm

Answer & Explanation

10. **The perimeter of a square is equal to twice the perimeter of a rectangle of length 8 cm and breadth 7 cm. What is the circumference of a semicircle whose diameter is equal to the side of the square ?**

A. 38.57 cm

B. 23.57 cm

C. 42.46 cm

D. 47.47 cm

E. None of the Above

Answer & Explanation

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1. **If the area of a square is equal to the area of that rectangle whose width is double of the one side of the square then the ratio of the length to the breadth of the rectangle will be?**

   A. 1 : 2

   B. 1 : 4

   C. 1 : 6

   D. 1 : 8

   E. None of the Above

   Answer & Explanation

2. **In a rectangle the ratio of the length and breadth is 3:2. If each of the length and breadth is increased by 3m their ratio becomes 10:7. The area of the original rectangle in m^2 is?**

   A. 384

   B. 486

   C. 346

   D. 476

   E. None of the Above

   Answer & Explanation

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3. **The perimeter of a rectangular field is 120 m and the difference between its two adjacent sides is 30 m. The sides of the square field whose area is equal to this rectangular field is?**

A. $15\sqrt{2}$

B. $12\sqrt{2}$

C. $15\sqrt{3}$

D. $12\sqrt{3}$

E. None of the Above

Answer & Explanation

4. **If each side pair of opposite sides of a square is increased by 10m, the ratio of the length and breadth of the rectangular so formed becomes 5:3. The area of the old square is?**

A. $290m^2$

B. $225m^2$

C. $230m^2$

D. $245m^2$

E. None of the Above

Answer & Explanation

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5. **The area of the garden formed by two concentric circles with circumferences 44m and 176 m respectively is?**

A. 2390m²

B. 2590m²

C. 2310m²

D. 2490m²

E. None of the Above

Answer & Explanation

6. **One of the adjacent sides of a rectangular courtyard is 5m and its diagonal measures 13 m long. What is the area of the courtyard?**

A. 60m²

B. 40m²

C. 50m²

D. 30m²

E. None of the Above

Answer & Explanation

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7. **The length of a park is four times of its breadth. A playground whose area is 1600 m² covers 1/4th part of the park. The length of the park is?**

A. 108 m

B. 140 m

C. 120 m

D. 160 m

E. 180 m

Answer & Explanation

8. **Two roads each 10m wide has been made running perpendicularly to each other inside a rectangular field of dimension 90m X 50m. What is the cost of spreading pebbles over them at the rate of Rs.8 per m².?**

A. 10400

B. 15400

C. 17500

D. 20600

E. None of the Above

Answer & Explanation

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9. **The width of a rectangular piece of land is 1/3 rd of its length. If the perimeter of the piece of land is 320m its length is?**

A. 140 m

B. 128 m

C. 120 m

D. 156 m

E. 124 m

Answer & Explanation

10. **The perimeter of a square and a rectangle are equal. If the length of rectangle is 24m and breadth of the rectangle is 1/3 rd of its length, then the area of the square will be?**

A. $216m^2$

B. $256m^2$

C. $324m^2$

D. $625m^2$

E. None of the Above

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

1. **A circular wire of radius 56 cm is cut and bent in the form of a rectangle whose sides are in the ratio of 6:5. The smaller side of the rectangle is**

   A.70cm

   B.75cm

   C.80cm

   D.85cm

   E.None of these

   Answer & Explanation

2. **The circumference of a circle is twice the perimeter of a rectangle. The area of the circle is 5544sq cm. What is the area of the rectangle if the length of the rectangle is 30cm ?**

   A.850sq cm

   B.990sq cm

   C.1080sq cm

   D.1150sq cm

   E.None of these

   Answer & Explanation

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3. **The ratio between the perimeter and the breadth of a rectangle is 5:1. If the area of the rectangle is 294 square cm, what is the length of the rectangle?**

A.12 cm

B.15 cm

C.19 cm

D.21 cm

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

4. **A rectangular sheet of metal is 40cm by 15cm. Equal squares of side 5cm are cut off at the corners and the remainder is folded up to form an open rectangular box. The volume of the box is**

A.750cm^3

B.720cm^3

C.680cm^3

D.650cm^3

E.None of these

Answer & Explanation

5. **10 cylindrical pillars of a building have to be painted. The diameter of each pillar is 70 cm and the height is 4m. What is the cost of painting at the rate of Rs. 10 per square metre?**

A.790

B.850

C.880

D.920

E.None of the Above

Answer & Explanation

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6. **In a rectangle the ratio of the length and breadth is 3:2. If each of the length and breadth is increased by 4m their ratio becomes 10:7. The area of the original rectangle in m^2 is?**

A.384

B.486

C.546

D.864

E.None of the Above

Answer & Explanation

7. **The length of a rectangular plot is 10 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?**

A.50

B.55

C.60

D.65

E.None of the Above

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

8. **A tank is 25 m long, 12 m wide and 6 m deep. The cost of plastering its walls and bottom at 25paise per sq. m, is:**

A.212

B.195

C.186

D.174

E.None of the Above

Answer & Explanation

9. **A rectangular field is to be fenced on three sides leaving a side of 30 feet uncovered. If the area of the field is 720 sq. feet, how many feet of fencing will be required?**

A.65

B.78

C.82

D.89

E.None of the Above

Answer & Explanation

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